

MEMORANDUM

TO: Jard Company Inc. Site File
cc: Daniel Burke, U.S. Environmental Protection Agency (EPA) On-Scene Coordinator
John M. Carlson, EPA Response Project Officer

FROM: Patricia Coppolino, Roy F. Weston, Inc., Superfund Technical Assessment and Response Team (START)

DATE: 31 August 1998

SUBJ: Extent of Contamination Study Conducted on 16 and 23-25 June and 7 July 1998
TDD No. 98-06-0010-A, PCS No. 5303, DC No. R-1557

On 16 and 23-25 June and 7 July 1998, EPA On-Scene Coordinator (OSC) Daniel Burke and Roy F. Weston, Inc., START members Patricia Coppolino, Todd Borci, Paul Callahan, and Mandy Butterworth conducted an extent of contamination study at the Jard Company Inc. site located along Bowen Road in Bennington, Bennington County, Vermont (see Attachment I - Site Location Map). The site is the location of a former capacitor manufacturing facility, which encompasses approximately 11 acres. The site consists of an approximate 70,000 square-foot manufacturing building, paved parking areas, and a wooded area to the south of the facility (see Attachment II - Site Diagram). The site is bound by Bowen Road to the north, a State of Vermont, Agency of Transportation garage to the northeast, an undeveloped lot to the east, the Roaring Branch of the Walloomsac River to the south, and baseball fields and an undeveloped lot to the west.

On 16 June 1998, OSC Burke and START members Coppolino and Borci mobilized to the site to conduct a site inspection and to measure the length of the site fence, the area that was to be re-paved, and the area that was to be sampled by START (see Attachment III - Site Dimension Diagram).

On 23 June 1998, START members Coppolino, Callahan, and Butterworth mobilized to the site to establish the sampling grid along the southern portion of the site (see Attachment IV - Sample Grid Map). At the time of arrival, START personnel noted that the doors on the western side of the building and the gate in the northern portion of the fence were both open and unattended.

The sampling grid consisted of a north to south baseline, with points at 25-foot intervals designated as A00 through H00. The baseline measured 167 feet from the rear of the former drum storage area into the wooded lot south of the site. Horizontal grid lines were established every 25 feet to the west of the baseline. The maximum length of the grid lines was 225 feet (east to west) on line D. Surface soil samples were collected (24 June 1998) for polychlorinated biphenyls (PCB) field screening analysis at each of the 42 grid points excluding D100. A sample could not be collected at D100 due to the presence of a cement floor. In addition samples locations were altered at A 40 and C 148 due to the presence of a fence.

Superfund Records Center
SITE: Jard
BREAK: 2.
OTHER: _____



SDMS DocID 564421

A separate line (AA through EE) was established to the west of station D225, measuring 122.5 feet from southeast to northwest. Five additional surface soil samples were collected for PCB field screening analysis at 25-foot intervals using this line as a baseline. Samples BB 5 through EE 5 were collected five feet from the baseline due to the presence of a fence.

On 24 June 1998, START personnel collected 50 surface soil samples (including 3 duplicate samples) for PCB field screening and five samples for confirmation PCB analysis from the sampling points established on 23 June 1998. All sampling activities were performed in accordance with the site sampling quality assurance/quality control plan, which was prepared as a separate document, entitled *Removal Program Sampling Quality Assurance/Quality Control Plan for the Jard Company Inc. Site Preliminary Assessment Site Investigation, Bennington, Vermont*. In addition START personnel re-measured the fence and building lengths as well as the paved areas of the site to confirm the measurements collected on 16 June 1998. After sampling activities were completed, START members photodocumented the site conditions (see Attachment V - Photodocumentation Log), and packaged the samples.

The surface soil samples were transported to the START field laboratory, located in Pittsfield, Massachusetts. The samples were screened by START members Brenda Operach and Kerri Cattabriga for the presence of PCB Aroclor 1242 using a gas chromatograph equipped with an electron capture detector (see Attachment VI - Screening Data Tables).

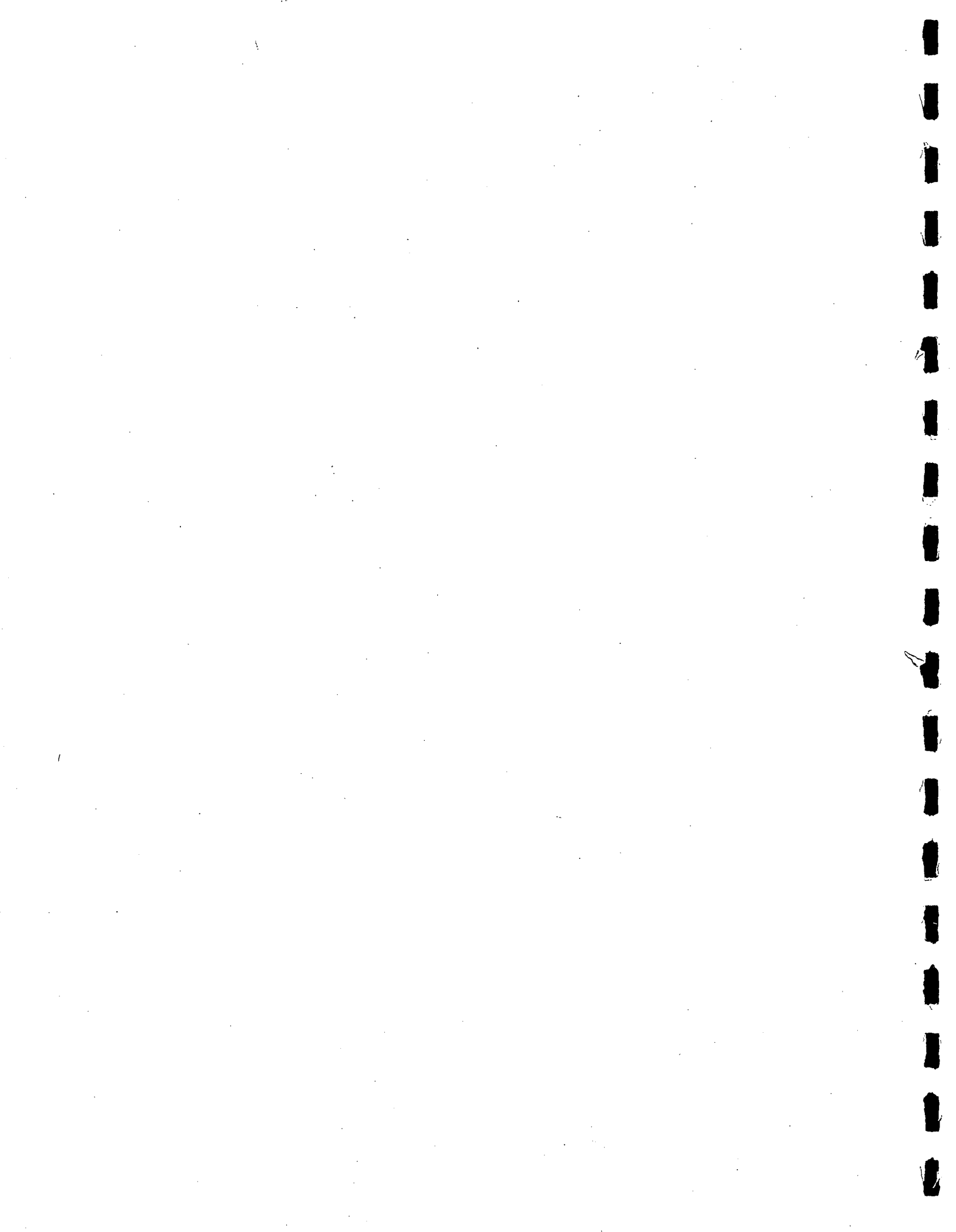
On 25 June 1998, 10 percent (five) of the screening samples were subsequently transported to the EPA New England Regional Laboratory (NERL) for confirmation PCB analysis (see Attachment VII - Chain-of-Custody, and Attachment VIII - Polychlorinated Biphenyls Analytical Data).

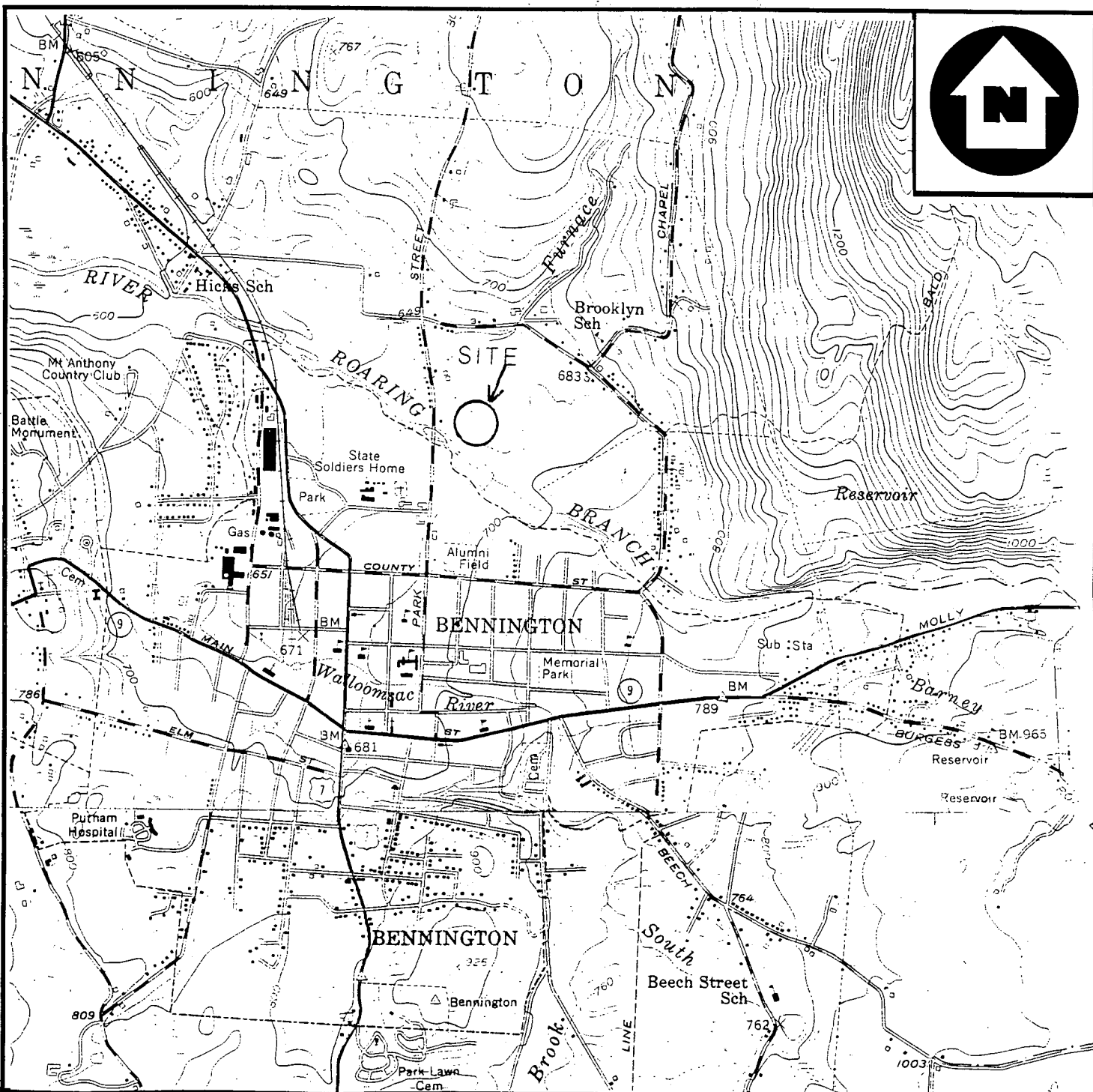
Results from the PCB screening analysis indicated levels of Aroclor 1242 at concentrations ranging from 0 to 50 parts per million, with the highest concentration detected at grid point E 125.

On 7 July 1998, START members Coppolino and Borci traveled to the site and returned the soil collected for field screening analysis. Samples were deposited at station E 125. When START members arrived at the site, they observed wooden ramps and other materials utilized for skateboarding, rollerblading, or biking. The materials were located in the parking area on the western portion of the site. A vehicle entered the site during site activities, and after speaking with the START members on site, the teenagers driving the vehicle departed the site. Before START members departed the site, the gate in the northern portion of the fence was closed to deter other motor vehicle traffic from entering onto the site.

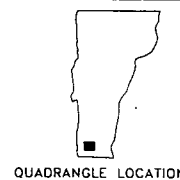
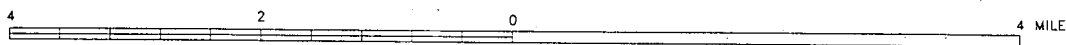
ATTACHMENT I

Site Location Map





BASE MAP IS A PORTION OF THE FOLLOWING 7.5 MINUTE U.S.G.S. QUADRANGLE(S):
 POWNAL, VERMONT 1942. FIELD CHECKED 1954. BENNINGTON, VERMONT 1942. FIELD CHECKED 1954



QUADRANGLE LOCATION

SITE LOCATION MAP

JARD COMPANY INC.
 BOWEN ROAD
 BENNINGTON, VERMONT



REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD #
 98-06-0010-A

DRAWN BY:
 COPPOLINO

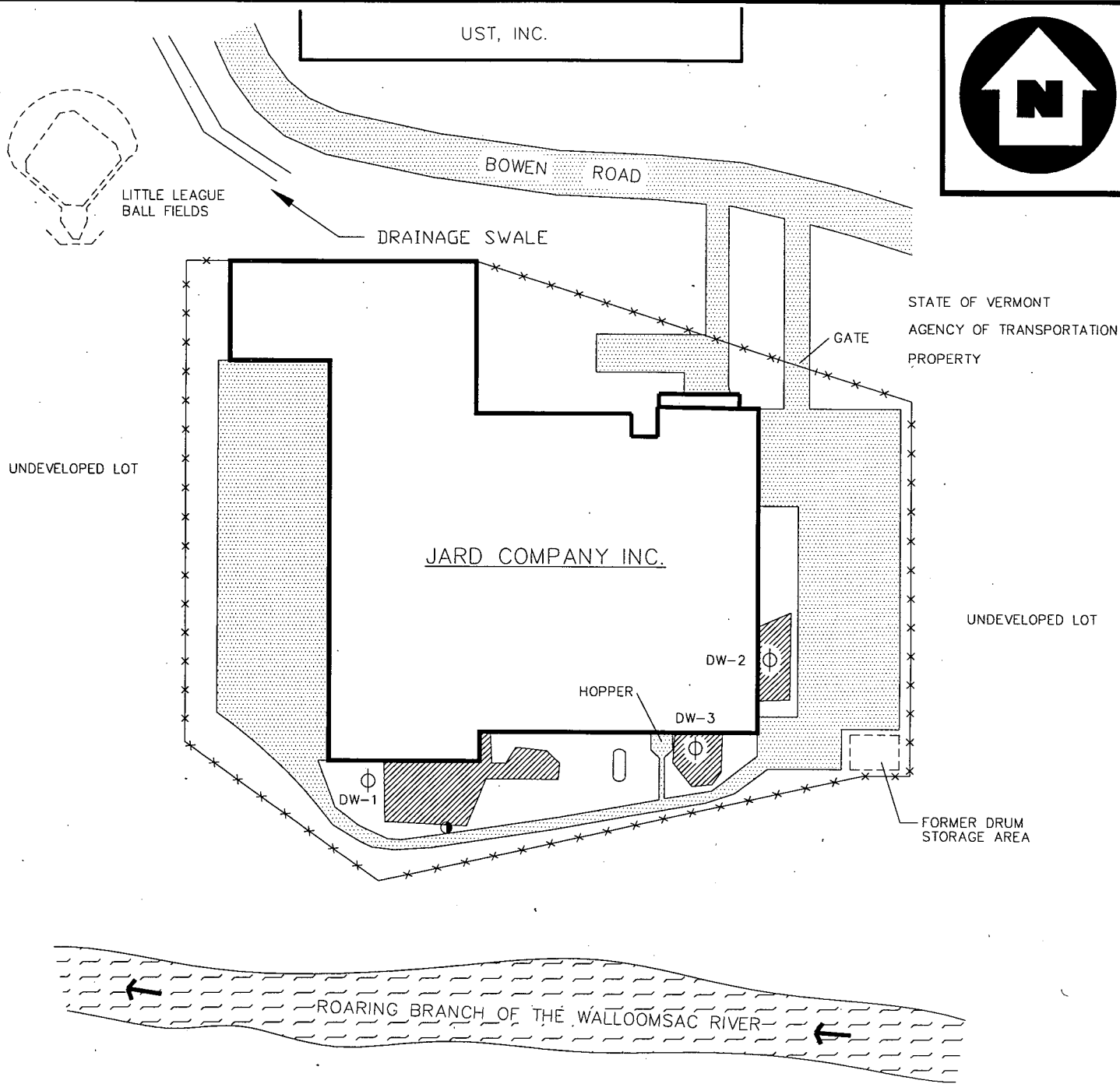
DATE
 7/17/98

FILE NAME:
 R:\98060010\FIG 1

FIGURE 1

ATTACHMENT II

Site Diagram



NOT TO SCALE

LEGEND

- | | | | |
|---|---------------|----------------|---|
| ABOVEGROUND STORAGE TANK (AST) | PAVED AREA | FLOW DIRECTION | FENCE LINE |
| WATER SUPPLY WELL (SCREENED IN UNKNOWN) | SURFACE WATER | DRY WELL | AREAS EXCAVATED DURING EPA REMOVAL ACTION |

SITE DIAGRAM
JARD COMPANY INC.
BOWEN ROAD
BENNINGTON, VERMONT



REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

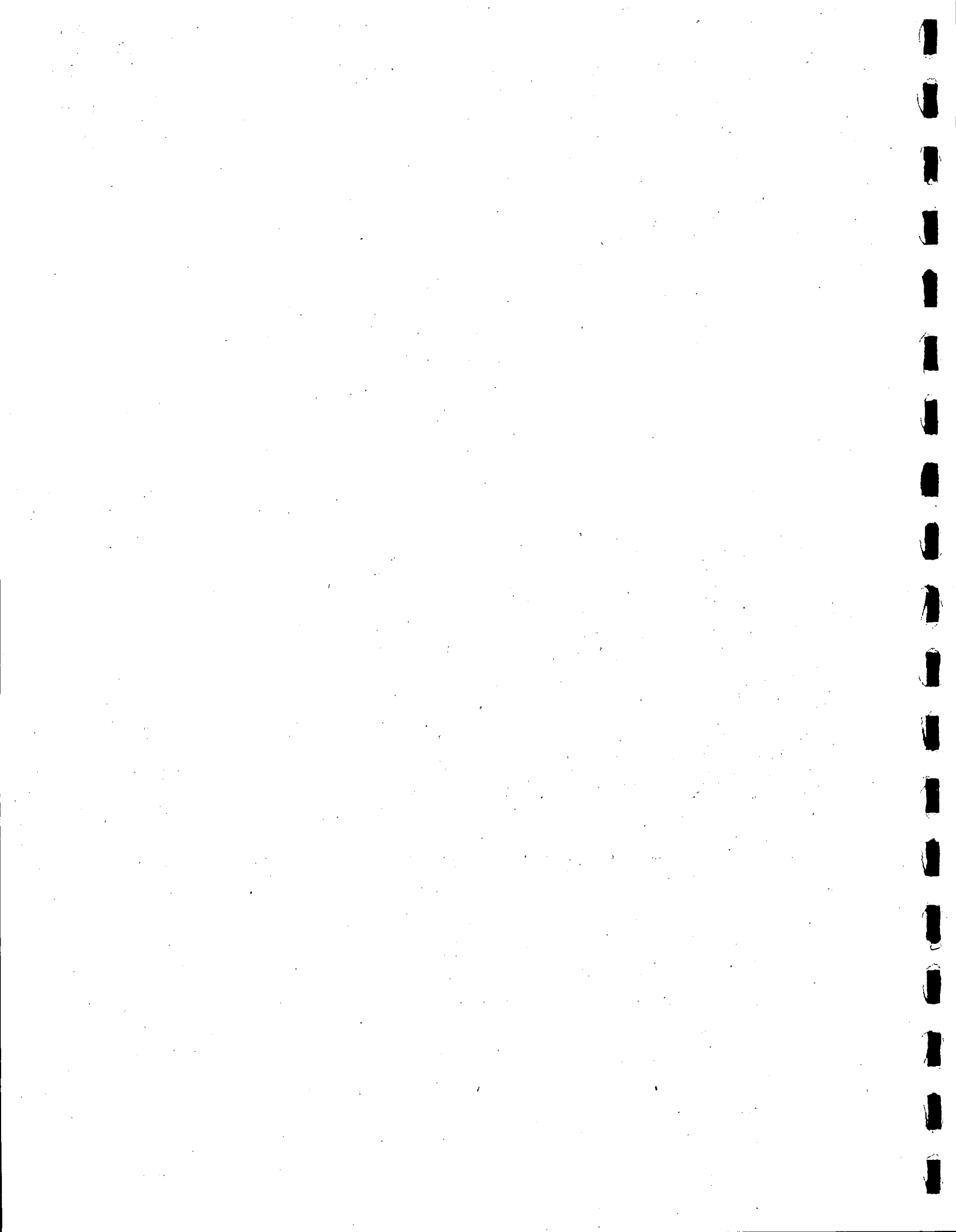
TDD #
98-06-0010

DRAWN BY:
W. SHAW

DATE
7/24/97

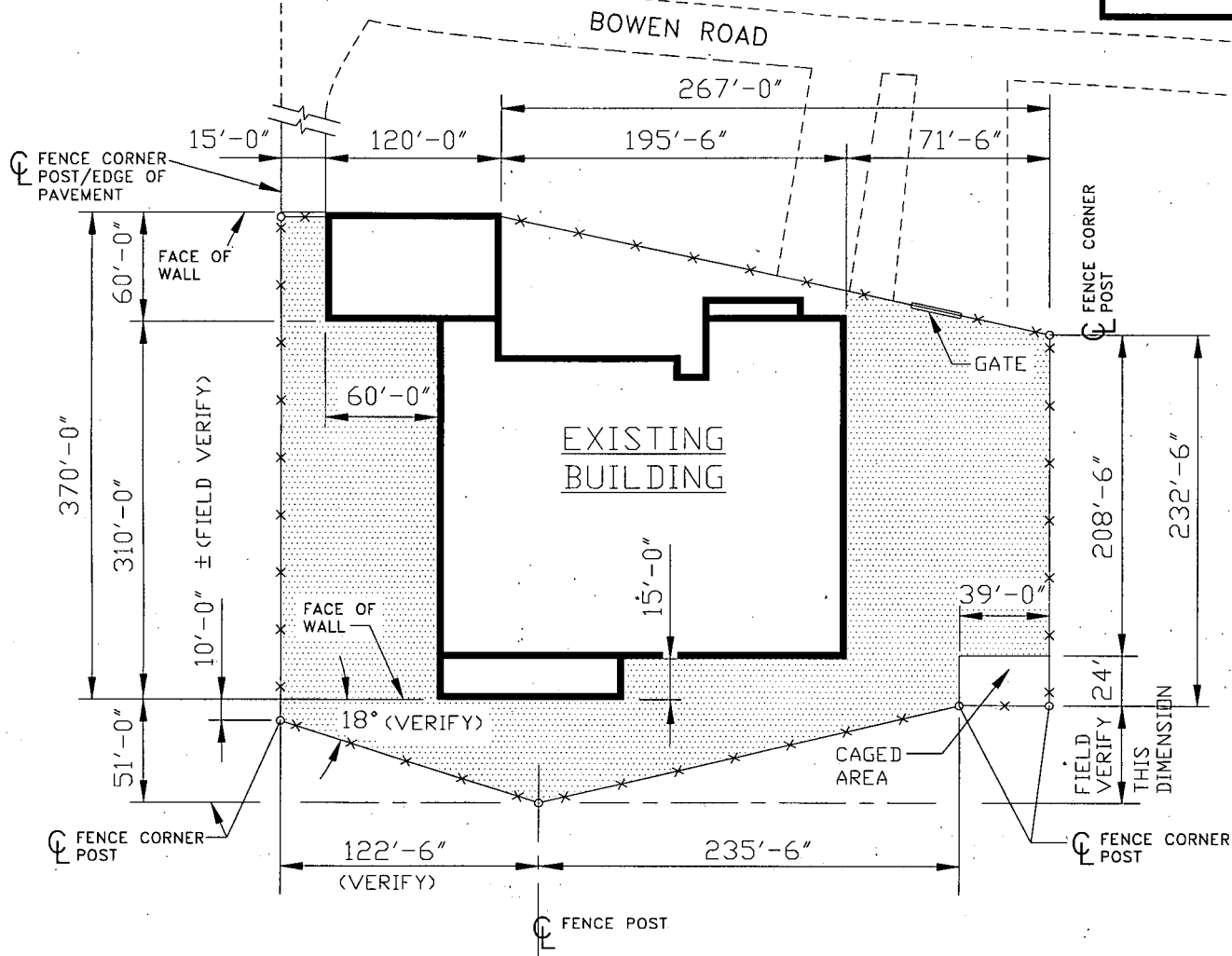
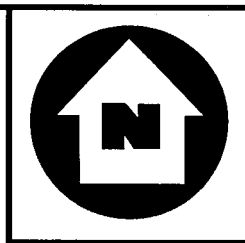
FILE NAME:
R:\98060010\FIG2X

FIGURE 2



ATTACHMENT III

Site Dimension Diagram



NOTES:

ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO FABRICATION OF FENCE
APPROXIMATE LENGTH OF FENCELINE IS 1,200 FEET (±50 FEET)
APPROXIMATE AREA TO BE PAVED IS 56,000 SQUARE FEET (±1,000 SQUARE FEET)

NOT TO SCALE

LEGEND

—x—x— CHAIN-LINK FENCE

⊕ = CENTERLINE



AREA TO BE PAVED

SITE DIMENSION DIAGRAM
JARD COMPANY INC.
BOWEN ROAD
BENNINGTON, VERMONT

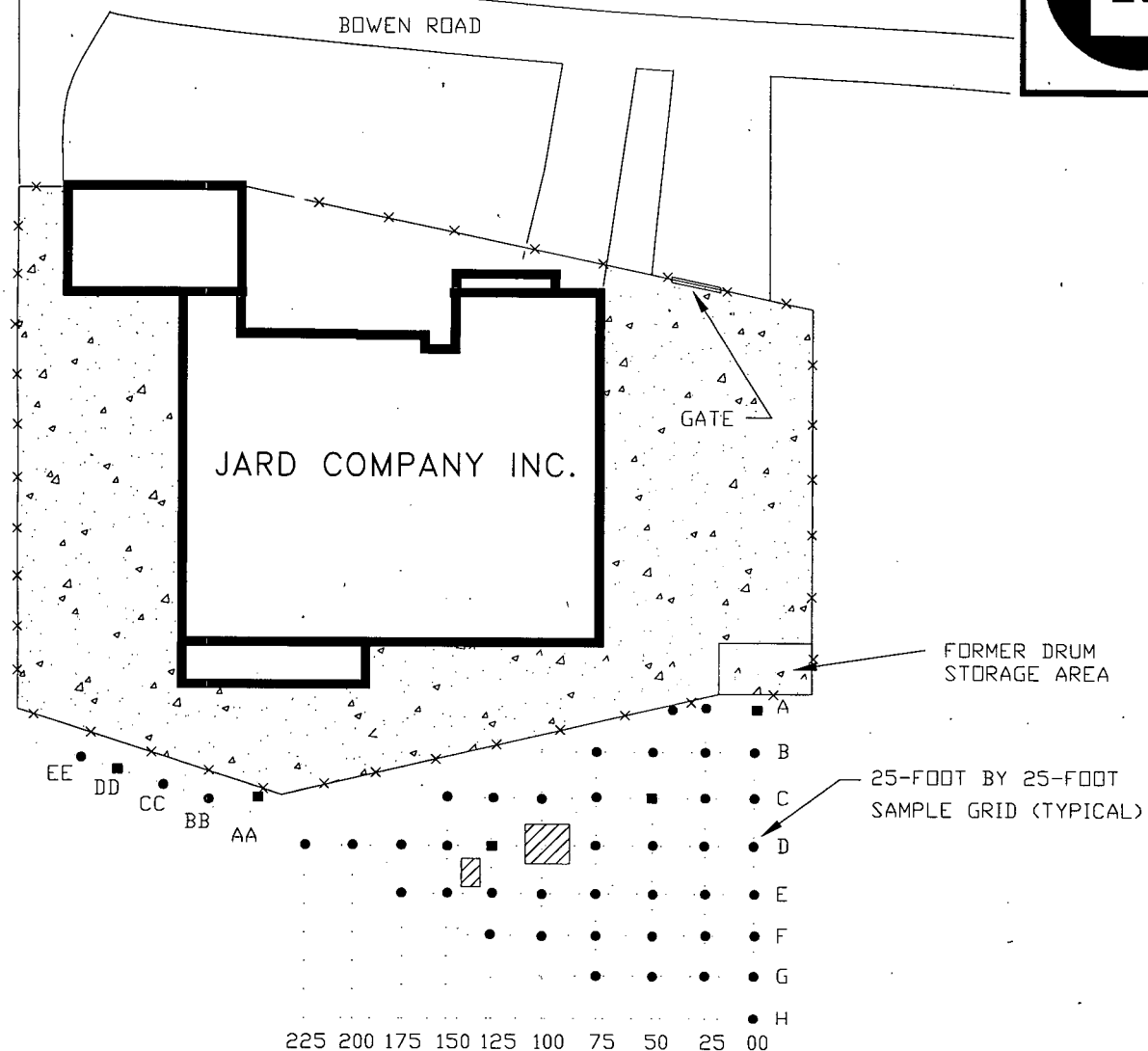


REGION 1 SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD #	DRAWN BY:	DATE
98-06-0010	T. BORCI	7/9/98
FILE NAME:	FIGURE 3	
R:\98060010\fig3.dwg		

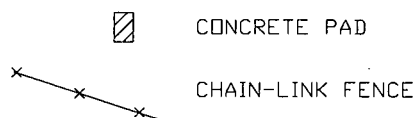
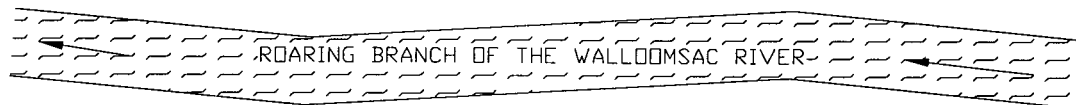
ATTACHMENT IV

Sample Grid Map



NOTES:

NOT TO SCALE



CONCRETE PAD

CHAIN-LINK FENCE

LEGEND

- FIELD SCREENING SOIL SAMPLE LOCATION
- CONFIRMATION SCREENING SOIL SAMPLE LOCATION
- ▨ AREA TO BE PAVED

SAMPLE GRID MAP
JARD COMPANY INC.
BOWEN ROAD
BENNINGTON, VERMONT



REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD #
98-06-0010

DRAWN BY:
T. BORCI

DATE
7/13/98

FILE NAME:
R:\98060010\fig4.dwg

FIGURE 4

ATTACHMENT V

Photodocumentation Log

PHOTOGRAPHY LOG SHEET
Jard Company Inc • Bennington, Vermont



SCENE: View of back parking lot (facing north). Note that the fence gate is open.

FRAME NUMBER: 01 **DATE:** 24 June 1998

TIME: 1100 **SKY CONDITION:** Cloudy

PHOTOGRAPH BY: Patricia Coppolino

WITNESS(ES): Mandy Butterworth

CAMERA: Olympus **SETTING:** Automatic

FILM TYPE: 35-mm **FILM ROLL:** 07766



SCENE: View of the A-baseline point and the former drum storage area (facing east).

FRAME NUMBER: 02 **DATE:** 24 June 1998

TIME: 1105 **SKY CONDITION:** Cloudy

PHOTOGRAPH BY: Patricia Coppolino

WITNESS(ES): Mandy Butterworth

CAMERA: Olympus **SETTING:** Automatic

FILM TYPE: 35-mm **FILM ROLL:** 07766

PHOTOGRAPHY LOG SHEET
Jard Company Inc • Bennington, Vermont



SCENE: View of baseline C through H (facing south).

FRAME NUMBER: 03 **DATE:** 24 June 1998

PHOTOGRAPH BY: Patricia Coppolino

CAMERA: Olympus **SETTING:** Automatic

TIME: 1110 **SKY CONDITION:** Cloudy

WITNESS(ES): Mandy Butterworth

FILM TYPE: 35-mm **FILM ROLL:** 07766



SCENE: View of sample location D 125 and a fenced in area that is believed to have been the location of a former gas tank storage area (facing east).

FRAME NUMBER: 04 **DATE:** 24 June 1998

PHOTOGRAPH BY: Patricia Coppolino

CAMERA: Olympus **SETTING:** Automatic

TIME: 1120 **SKY CONDITION:** Cloudy

WITNESS(ES): Mandy Butterworth

FILM TYPE: 35-mm **FILM ROLL:** 07766

PHOTOGRAPHY LOG SHEET
Jard Company Inc • Bennington, Vermont



SCENE: View of a gas gage located within a fenced in area located between grid line D and E.
FRAME NUMBER: 05 **DATE:** 24 June 1998 **TIME:** 1125 **SKY CONDITION:** Cloudy
PHOTOGRAPH BY: Patricia Coppolino **WITNESS(ES):** Mandy Butterworth
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35-mm **FILM ROLL:** 07766



SCENE: View of Roaring Branch of the Walloomsac River (facing south), located 30 feet from H baseline.
FRAME NUMBER: 06 **DATE:** 24 June 1998 **TIME:** 1130 **SKY CONDITION:** Cloudy
PHOTOGRAPH BY: Patricia Coppolino **WITNESS(ES):** Mandy Butterworth
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35-mm **FILM ROLL:** 07766

PHOTOGRAPHY LOG SHEET
Jard Company Inc • Bennington, Vermont



SCENE: View of fence line where double letter (AA through EE) sample locations are located (facing northwest)
FRAME NUMBER: 07 **DATE:** 24 June 1998 **TIME:** 1135 **SKY CONDITION:** Cloudy
PHOTOGRAPH BY: Patricia Coppolino **WITNESS(ES):** Mandy Butterworth
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35-mm **FILM ROLL:** 07766



Roy F. Weston, Inc.
217 Middlesex Turnpike
Burlington, Massachusetts 01803-3308

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0009

NEGATIVES FOR ROLL 07766

ATTACHMENT VI

Screening Data Tables

PCB FIELD SCREENING RESULTS SHEET

Jard Company Inc. Site Bennington, Vermont

SAMPLE ID	DATE SAMPLED	DATE ANALYZED	AROCOR 1242 $\mu\text{g/g}$ dry	PERCENT SOLIDS %	DATE EXTRACTED
A 00	6/24/98	6/24/98	3.5 J	86	6/25/98
A 25	6/24/98	6/24/98	12.2 U	82	6/25/98
A 40	6/24/98	6/24/98	10.9 U	92	6/25/98
AA 00	6/24/98	6/24/98	6.5 J	85	6/25/98
B 00	6/24/98	6/24/98	11.1 U	90	6/25/98
B 25	6/24/98	6/24/98	12.0 U	83	6/25/98
B 50	6/24/98	6/24/98	3.3 J	82	6/25/98
B 75	6/24/98	6/24/98	10.9 U	92	6/25/98
BB 5	6/24/98	6/24/98	4.5 J	87	6/25/98
C 00	6/24/98	6/24/98	14.3 U	70	6/25/98
C 25	6/24/98	6/24/98	14.3 U	70	6/25/98
C 50	6/24/98	6/24/98	14.5 U	69	6/25/98
C 75	6/24/98	6/24/98	12.0 U	83	6/25/98
C 100	6/24/98	6/24/98	13.2 U	76	6/25/98
C 125	6/24/98	6/24/98	13.5 U	74	6/25/98
C 148	6/24/98	6/24/98	11.8 U	85	6/25/98
CC 5	6/24/98	6/24/98	11.4 U	88	6/25/98
D 00	6/24/98	6/24/98	13.5 U	74	6/25/98
D 25	6/24/98	6/24/98	15.6 U	64	6/25/98
D 50	6/24/98	6/24/98	11.2 U	89	6/25/98
D 75	6/24/98	6/24/98	12.7 U	79	6/25/98
D 125	6/24/98	6/24/98	12.3 U	81	6/25/98

$\mu\text{g/g} = \text{mg/kg} = \text{ppm}$

PCB FIELD SCREENING RESULTS SHEET

Jard Company Inc. Site Bennington, Vermont

SAMPLE ID	DATE SAMPLED	DATE ANALYZED	AROCOR 1242 $\mu\text{g/g}$ dry	PERCENT SOLIDS %	DATE EXTRACTED
D 150	6/24/98	6/24/98	11.2 U	89	6/25/98
D 175	6/24/98	6/24/98	11.9 U	84	6/25/98
D 200	6/24/98	6/24/98	8.8 J	85	6/25/98
D 225	6/24/98	6/24/98	11.4 U	88	6/25/98
DD 5	6/24/98	6/24/98	11.6 U	88	6/25/98
E 00	6/24/98	6/24/98	16.4 U	61	6/25/98
E 25	6/24/98	6/24/98	20.8 U	48	6/25/98
E 50	6/24/98	6/24/98	15.4 U	65	6/25/98
E 75	6/24/98	6/24/98	13.5 U	74	6/25/98
E 100	6/24/98	6/24/98	5.6 J	88	6/25/98
E 125	6/24/98	6/24/98	50.0	85	6/25/98
E 150	6/24/98	6/24/98	30.2	88	6/25/98
E 175	6/24/98	6/24/98	2.6 J	94	6/25/98
EE 5	6/24/98	6/24/98	6.4 J	90	6/25/98
F 00	6/24/98	6/24/98	18.5 U	54	6/25/98
F 25	6/24/98	6/24/98	12.7 U	79	6/25/98
F 50	6/24/98	6/24/98	13.5 U	74	6/25/98
F 75	6/24/98	6/24/98	17.2 U	58	6/25/98
F 100	6/24/98	6/24/98	48.6	54	6/25/98
F 125	6/24/98	6/24/98	9.3 J	86	6/25/98
G 00	6/24/98	6/24/98	12.7 U	79	6/25/98
G 25	6/24/98	6/24/98	15.4 U	65	6/25/98

$\mu\text{g/g}$ = mg/kg = ppm

PCB FIELD SCREENING RESULTS SHEET

Jard Company Inc. Site Bennington, Vermont

SAMPLE ID	DATE SAMPLED	DATE ANALYZED	AROCLOR 1242 $\mu\text{g/g dry}$	PERCENT SOLIDS %	DATE EXTRACTED
G 50	6/24/98	6/24/98	16.7 U	60	6/25/98
G 75	6/24/98	6/24/98	15.9 U	63	6/25/98
H 00	6/24/98	6/24/98	12.0 U	83	6/25/98
Z 5 dup of CC 5	6/24/98	6/24/98	11.6 U	86	6/25/98
Z 50 dup of G 50	6/24/98	6/24/98	16.7 U	60	6/25/98
Z 150 dup of D 150	6/24/98	6/24/98	11.1 U	90	6/25/98

U = Compound was analyzed for but not detected
J = Value is estimated
Dup = Duplicate
PCB = Polychlorinated biphenyl

$\mu\text{g/g} = \text{mg/kg} = \text{ppm}$

ATTACHMENT VII

Chain-of-Custody

CHAIN OF CUSTODY · RECORD

[illegible]

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

START: Patricia Cepelino 781-229-6430

ATTACHMENT VIII

Polychlorinated Biphenyls Analytical Data



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 1
ENVIRONMENTAL SERVICES DIVISION
60 WESTVIEW STREET
LEXINGTON, MASSACHUSETTS 02173-3185

File
7/22/98

DATE: July 9, 1998
SUBJ: Analysis of PCBs in Soils - JARD, INC
FROM: ^{PEP} Peter Philbrook, Investigations and Analysis, Chemistry Section
THRU: Dr. William J. Andrade, Advanced Analytical Chemistry Specialist
TO: Dan Burke *WJA 7/22/98*

PROJECT NUMBER: 98431

ANALYTICAL PROCEDURE:

All samples were received and logged in by the laboratory according to the SOP for Sample Log-In (EIA-ADMLOGN1.SOP, 7/97).

EPA Region 1 Procedure: Polychlorinated Biphenyls in Soil Samples, Mid Level Method, PCBSOML6.SOP. Samples were extracted by Pressurized Fluid Extraction (PFE) EPA SW846 Method 3545A.

Results are reported out in dry weight.

Date Samples Received by the Laboratory: 06/25/98

Date Analysis Started: 06/29/98

cc:

File: J:\CHEMISTRY\REPORTS\PCB-PEST\98431SP.WPD

US ENVIRONMENTAL PROTECTION AGENCY
60 Westview Street
Lexington, MA 02173

QUALITY CONTROL:

1. One method blank was included in the analysis.
2. Each sample was spiked with the surrogate compounds, tetrachloroxylene and decachlorobiphenyl, at approximately 0.1 mg/Kg. The results for the surrogate recoveries are reported out with each sample.
3. One sample, 68200, was spiked as a matrix spike with Aroclor-1260 at approximately 0.6 mg/Kg. The recovery is listed below.

PCB	MS Rec. %	QC Range (%)
Aroclor 1260	131	46 - 153

OTHER COMPOUNDS QUANTITATED:

PCB	MS Conc. (mg/Kg)
Aroclor 1242	8.9

SAMPLES ANALYZED: BLANK, 68195PE9103, 68196, 68197, 68198, 68199,
68200, 68200MS

US ENVIRONMENTAL PROTECTION AGENCY
60 Westview Street
Lexington, MA 02173

Chemist who reviewed data: Peter Philbrook

Holding time meet (Y/N): Yes
Extraction (Water - 7 days, Soil - 14 days)
Analytical (40 days after extraction)

Method modifications: None

Limitations of data: None

Laboratory blank problems: None

Instrument performance problems: None

Surrogate and spike recovery problems: None

Additional comments:

All samples except 68195 exhibited a degraded or weathered PCB pattern most closely resembling that of Aroclor 1242.

FACILITY SAMPLED:

JARD, INC

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Polychlorinated Biphenyls

SAMPLE NO.: BLANK

DATE OF COLLECTION: NOT APPLICABLE

DATE OF EXTRACTION: 06/29/98

DATE OF ANALYSIS: 07/01/98

DRY WEIGHT EXTRACTED: 5.05 g

WET WEIGHT EXTRACTED: 5.052 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 0

Extract Dilution 1

Report Factor: 1.0

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.1	
11104-28-2	Aroclor-1221	ND	0.1	
11141-16-5	Aroclor-1232	ND	0.1	
53469-21-9	Aroclor-1242	ND	0.1	
12672-29-6	Aroclor-1248	ND	0.1	
11097-69-1	Aroclor-1254	ND	0.1	
11096-82-5	Aroclor-1260	ND	0.1	
11100-14-4	Aroclor-1262	ND	0.1	
37324-23-5	Aroclor-1268	ND	0.1	

Sample Recovery for
Surrogate Compound:Observed
Recoveries (%)QC Range
%

Decachlorobiphenyl

97

54-110

2,4,5,6-Tetrachloro-m-xylene

77

37-95

Notes:

RL = Reporting level

ND = None detected

~ = Approximate

< = Less than

> = Greater than

NA = Not applicable due to high sample
dilutions or sample interferences

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank
contamination. Values are qualified when the observed
concentration of the contaminant in the sample extract
is less than ten times the concentration in the blank.P = The confirmation value exceeded 35% difference and is
less than 100%. The lower value is reported.

D = Detected but too low to quantitate.

C = The identification has been confirmed by GC/MS.

FACILITY SAMPLED: JARD, INC

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
Polychlorinated Biphenyls

SAMPLE NO.: 68195 PE9103

DATE OF COLLECTION: 06/24/98

DATE OF EXTRACTION: 06/29/98

DATE OF ANALYSIS: 07/01/98

DRY WEIGHT EXTRACTED: 5.02 g

WET WEIGHT EXTRACTED: 5.02 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 0

Dilution Factor: 20

Report Factor: 19.9

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	2	
11104-28-2	Aroclor-1221	ND	2	
11141-16-5	Aroclor-1232	ND	2	
53469-21-9	Aroclor-1242	27	2	
12672-29-6	Aroclor-1248	ND	2	
11097-69-1	Aroclor-1254	ND	2	
11096-82-5	Aroclor-1260	ND	2	
11100-14-4	Aroclor-1262	ND	2	
37324-23-5	Aroclor-1268	ND	2	

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)	QC Range %
Decachlorobiphenyl	116	54-110
2,4,5,6-Tetrachloro-m-xylene	102	37-95

FACILITY SAMPLED:

JARD, INC

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Polychlorinated Biphenyls

SAMPLE NO.: 68196

DATE OF COLLECTION: 06/24/98

DATE OF EXTRACTION: 06/29/98

DATE OF ANALYSIS: 07/02/98

DRY WEIGHT EXTRACTED: 5.37 g

WET WEIGHT EXTRACTED: 6.106 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 12

Dilution Factor: 25

Report Factor: 23.3

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	2.3	
11104-28-2	Aroclor-1221	ND	2.3	
11141-16-5	Aroclor-1232	ND	2.3	
53469-21-9	Aroclor-1242	14	2.3	
12672-29-6	Aroclor-1248	ND	2.3	
11097-69-1	Aroclor-1254	ND	2.3	
11096-82-5	Aroclor-1260	ND	2.3	
11100-14-4	Aroclor-1262	ND	2.3	
37324-23-5	Aroclor-1268	ND	2.3	

Sample Recovery for
Surrogate Compound:Observed
Recoveries (%)QC Range
%Decachlorobiphenyl
2,4,5,6-Tetrachloro-m-xylene109
8354-110
37-95

FACILITY SAMPLED:

JARD, INC

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Polychlorinated Biphenyls

SAMPLE NO.: 68197

DATE OF COLLECTION: 06/24/98

DATE OF EXTRACTION: 06/29/98

DATE OF ANALYSIS: 07/02/98

DRY WEIGHT EXTRACTED: 5.16 g

WET WEIGHT EXTRACTED: 6.113 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 16

Dilution Factor: 20

Report Factor: 19.4

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	1.9	
11104-28-2	Aroclor-1221	ND	1.9	
11141-16-5	Aroclor-1232	ND	1.9	
53469-21-9	Aroclor-1242	8.6	1.9	
12672-29-6	Aroclor-1248	ND	1.9	
11097-69-1	Aroclor-1254	ND	1.9	
11096-82-5	Aroclor-1260	ND	1.9	
11100-14-4	Aroclor-1262	ND	1.9	
37324-23-5	Aroclor-1268	ND	1.9	

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)	QC Range %
Decachlorobiphenyl	115	54-110
2,4,5,6-Tetrachloro-m-xylene	71	37-95

FACILITY SAMPLED:

JARD, INC

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
Polychlorinated Biphenyls

SAMPLE NO.: 68198

DATE OF COLLECTION: 06/24/98

DATE OF EXTRACTION: 06/29/98

DATE OF ANALYSIS: 07/02/98

DRY WEIGHT EXTRACTED: 4.87 g

WET WEIGHT EXTRACTED: 6.07 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 20

Dilution Factor: 2

Report Factor: 2.1

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.21	
11104-28-2	Aroclor-1221	ND	0.21	
11141-16-5	Aroclor-1232	ND	0.21	
53469-21-9	Aroclor-1242	1.3	0.21	
12672-29-6	Aroclor-1248	ND	0.21	
11097-69-1	Aroclor-1254	ND	0.21	
11096-82-5	Aroclor-1260	ND	0.21	
11100-14-4	Aroclor-1262	ND	0.21	
37324-23-5	Aroclor-1268	ND	0.21	

Sample Recovery for
Surrogate Compound:

Observed
Recoveries (%)

QC Range
%

Decachlorobiphenyl
2,4,5,6-Tetrachloro-m-xylene

94
80

54-110
37-95

FACILITY SAMPLED:

JARD, INC

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
Polychlorinated Biphenyls

SAMPLE NO.: 68199

DATE OF COLLECTION: 06/24/98

DATE OF EXTRACTION: 06/29/98

DATE OF ANALYSIS: 07/02/98

DRY WEIGHT EXTRACTED: 4.65 g

WET WEIGHT EXTRACTED: 6.305 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 26

Dilution Factor: 2

Report Factor: 2.2

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.22	
11104-28-2	Aroclor-1221	ND	0.22	
11141-16-5	Aroclor-1232	ND	0.22	
53469-21-9	Aroclor-1242	2.3	0.22	
12672-29-6	Aroclor-1248	ND	0.22	
11097-69-1	Aroclor-1254	ND	0.22	
11096-82-5	Aroclor-1260	ND	0.22	
11100-14-4	Aroclor-1262	ND	0.22	
37324-23-5	Aroclor-1268	ND	0.22	

Sample Recovery for
Surrogate Compound:

Observed
Recoveries (%)

QC Range
%

Decachlorobiphenyl
2,4,5,6-Tetrachloro-m-xylene

102
64

54-110
37-95

FACILITY SAMPLED:

JARD, INC

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
Polychlorinated Biphenyls

SAMPLE NO.: 68200

DATE OF COLLECTION: 06/24/98

DATE OF EXTRACTION: 06/29/98

DATE OF ANALYSIS: 07/01/98

DRY WEIGHT EXTRACTED: 5.74 g

WET WEIGHT EXTRACTED: 6.53 g

Matrix: Soil
Final Volume: 5 mL
Percent Moisture 12
Dilution Factor: 10
Report Factor: 8.7

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.87	
11104-28-2	Aroclor-1221	ND	0.87	
11141-16-5	Aroclor-1232	ND	0.87	
53469-21-9	Aroclor-1242	6.8	0.87	
12672-29-6	Aroclor-1248	ND	0.87	
11097-69-1	Aroclor-1254	ND	0.87	
11096-82-5	Aroclor-1260	ND	0.87	
11100-14-4	Aroclor-1262	ND	0.87	
37324-23-5	Aroclor-1268	ND	0.87	

Sample Recovery for
Surrogate Compound:

Observed
Recoveries (%)

QC Range
%

Decachlorobiphenyl
2,4,5,6-Tetrachloro-m-xylene

118
82

54-110
37-95